



HIV/AIDS in Suburban Washington: An Epidemiological Profile

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IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards
- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.



National Data



U.S. HIV/AIDS Prevalence



- At the end of 2006, an estimated 1.1 million Americans were infected with HIV
- It is also estimated that 21% of the infected were undiagnosed
 - CDC. Morbidity and Mortality Weekly Report; October 3, 2008; 57:1073-6. Atlanta.



2009 Estimated AIDS Diagnoses, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia	718	119.8
2. New York	4,799	24.6
3. Florida	4,392	23.7
4. Maryland	1,134	19.9
5. Louisiana	869	19.4
6. Puerto Rico	735	18.5
7. Delaware	159	18.0
8. New Jersey	1,475	16.9
9. South Carolina	713	15.6
10. Georgia	1,391	14.1
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<i>United States</i>	<i>34,993</i>	<i>11.2</i>



2009 Estimated AIDS Diagnoses, Ranked by Rates

<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1 Miami, FL	2,061	37.2
2. Baton Rouge, LA	241	30.6
3. Jacksonville, FL	387	29.1
4. New York, NY-NJ-PA	5,153	27.0
5. Washington, DC-VA-MD-WV	1,455	26.6
6. Columbia, SC	175	23.5
7. Memphis, TN-MS-AR	305	23.3
8. Orlando, FL	485	23.3
9. New Orleans-Metairie-Kenner, LA	274	23.0
10. Baltimore-Towson, MD	614	22.8
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<i>United States</i>	34,981	11.2



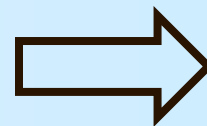
State Data



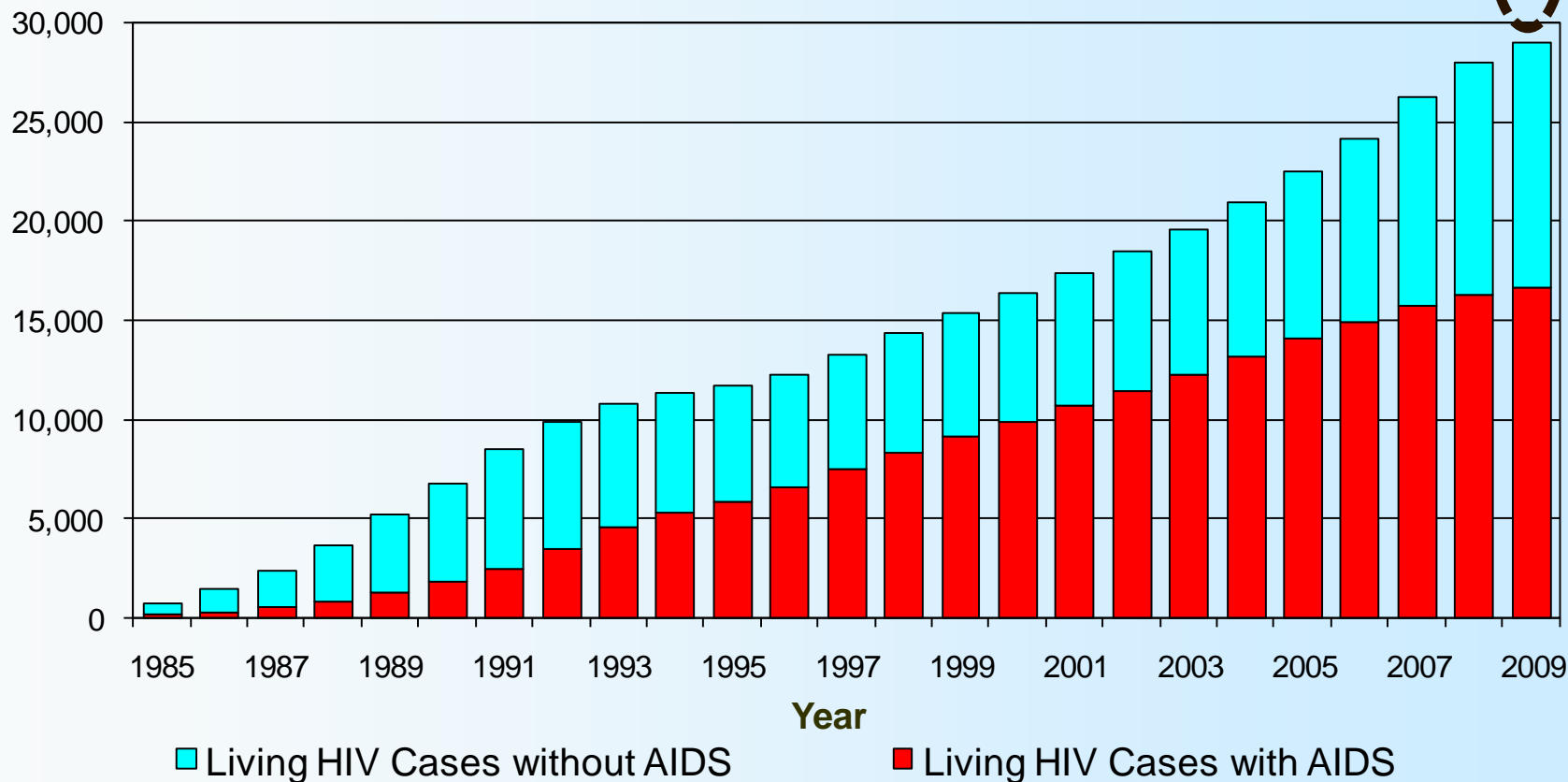
Maryland Living HIV Cases



+21% Undiagnosed?



Number of Cases



Using data as reported through 12/31/2010

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Maryland HIV/AIDS Statistics



Reported Diagnoses (during 2009)	No.	per 100,000	1 in X
HIV	1,521	26.7	
AIDS	692	12.1	

Living Cases (on 12/31/09)

HIV without AIDS	12,373	217.1	
HIV with AIDS	16,707	293.1	

Total HIV	29,080	510.2	196
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Cumulative (through 12/31/10)

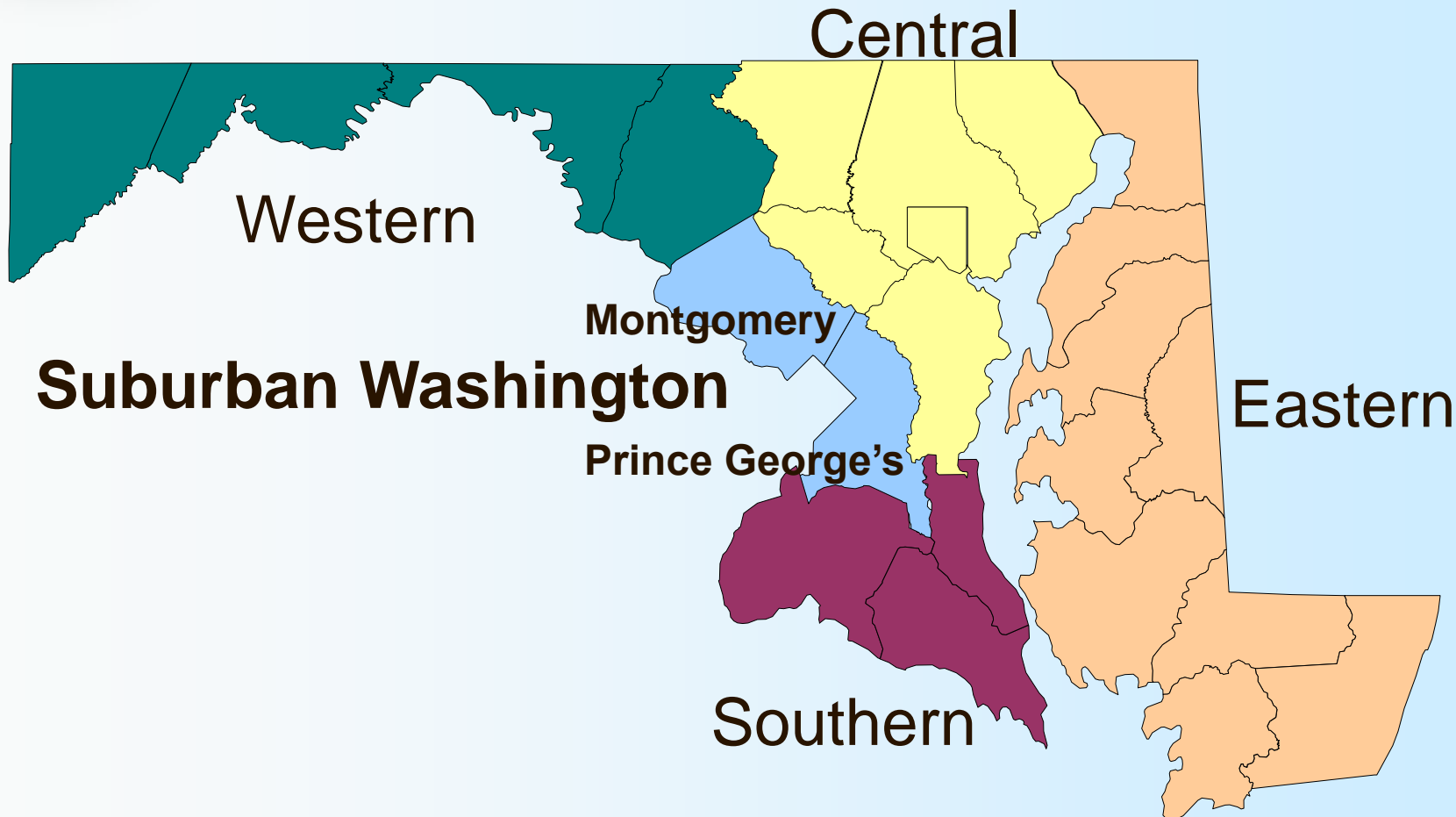
Total HIV	48,812		
HIV with AIDS	34,809	(71.3% of HIV)	

AIDS Deaths	17,741	(51.0% of AIDS)	
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Using data as reported through 12/31/2010

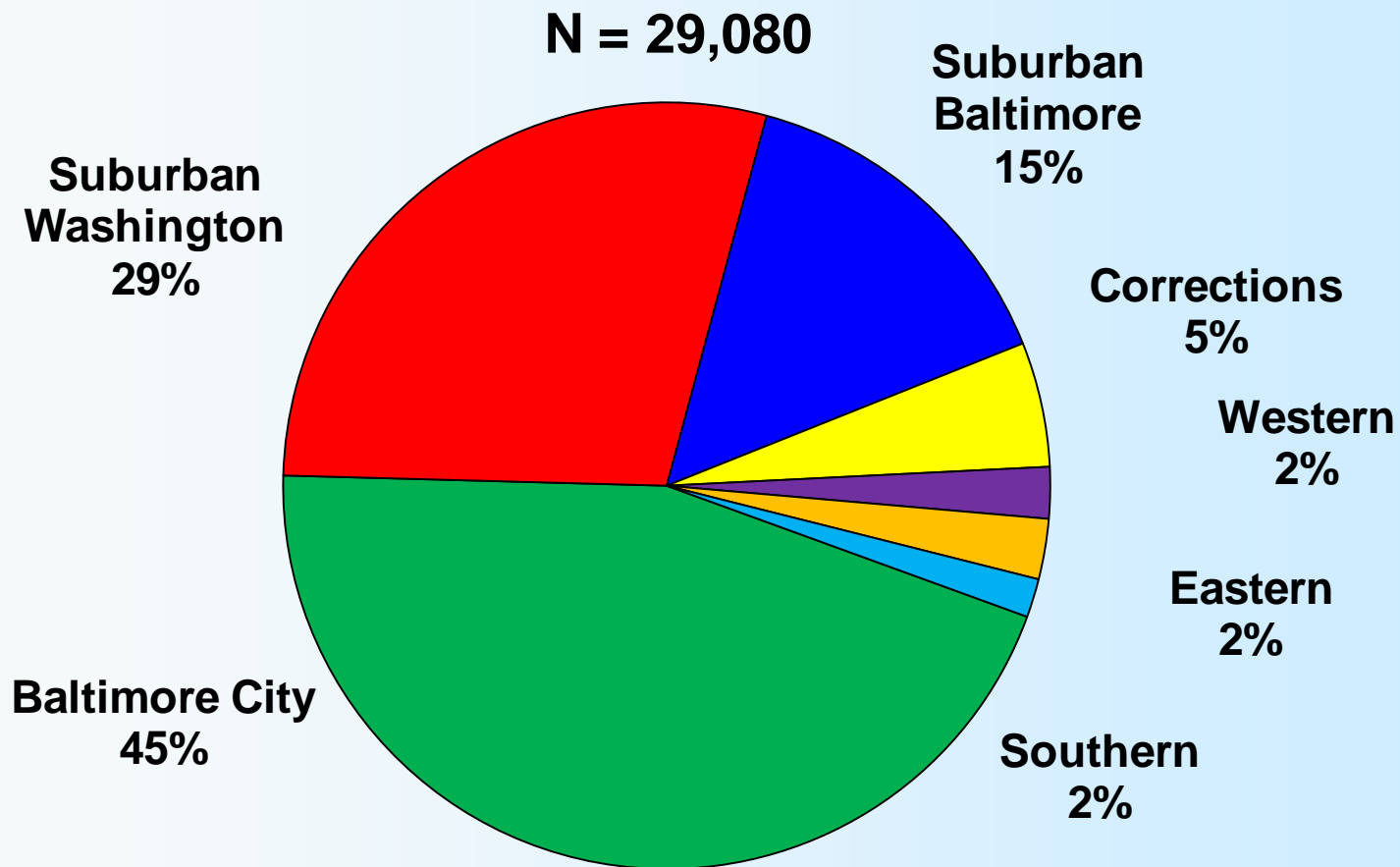


Maryland Regional Advisory Committee Regions





Maryland Living HIV Cases by Region, 12/31/09



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Regional Data

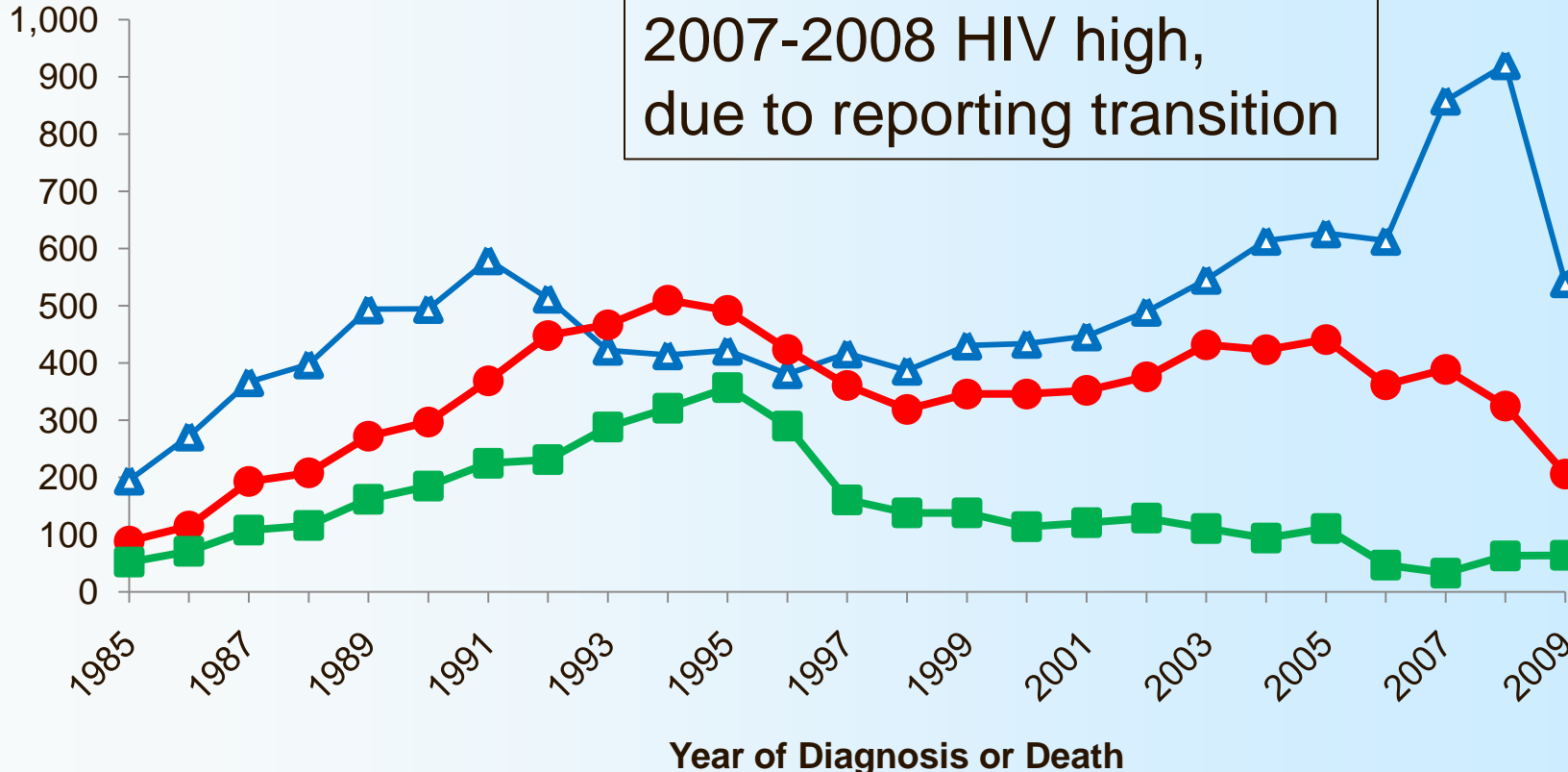


HIV/AIDS Trends

Suburban Washington



Number of Events



▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

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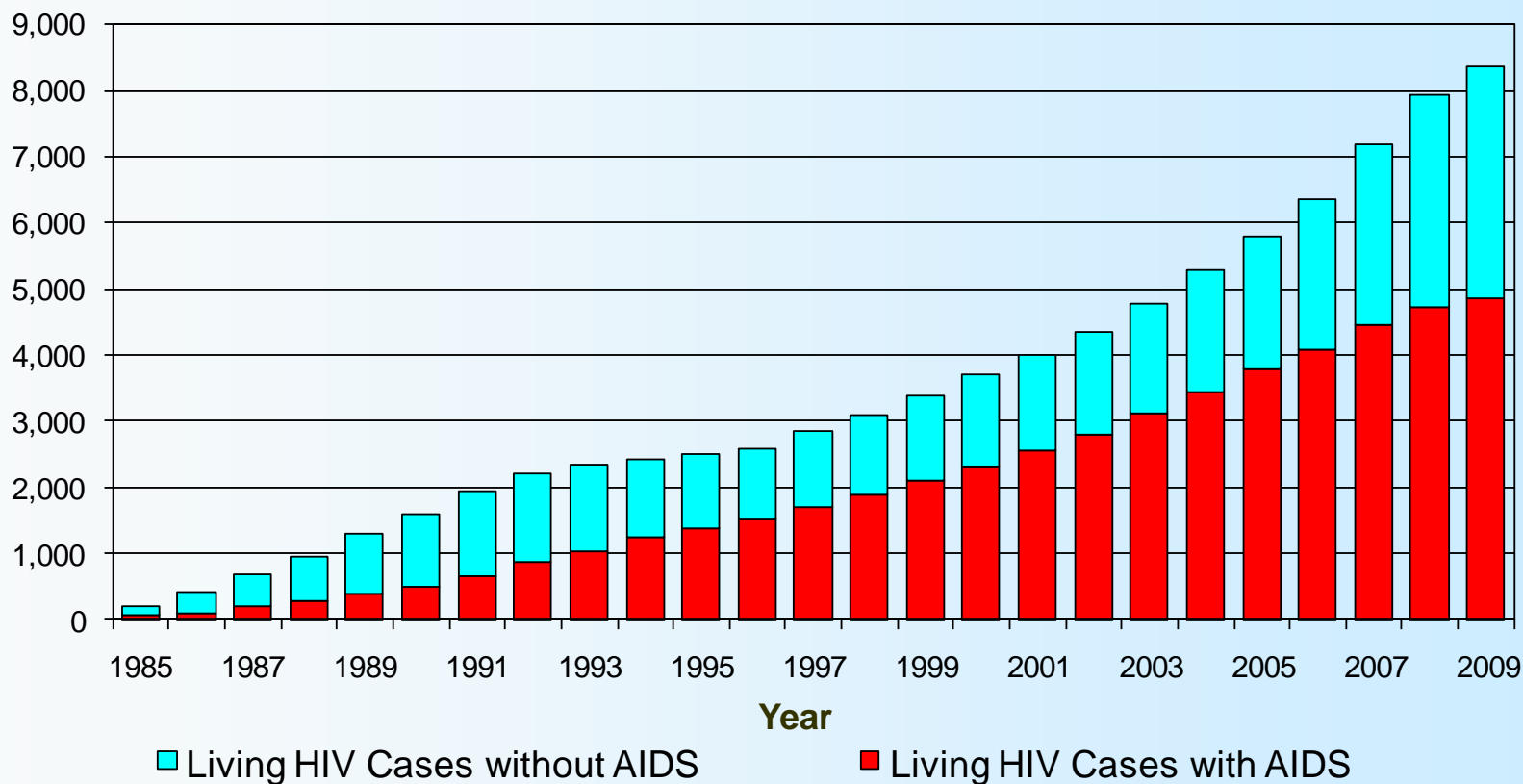
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Living HIV Cases Suburban Washington



Number of Cases



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HIV Statistics

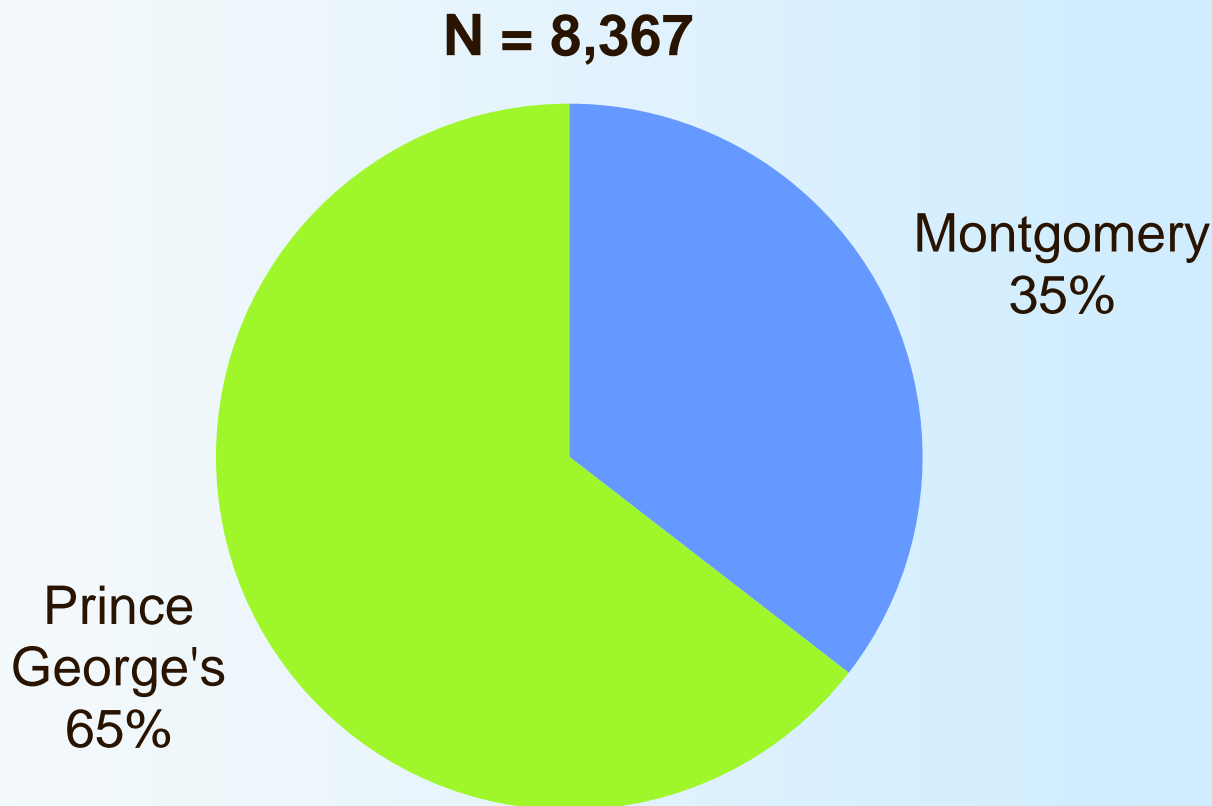
Suburban Washington

	Reported HIV Diagnoses during 2009	Living HIV Cases on 12/31/2009
Suburban Washington	540	8,367
Montgomery	153	2,968
Prince George's	387	5,399

Using data as reported through 12/31/2010



Suburban Washington Living HIV Cases by County, 12/31/09

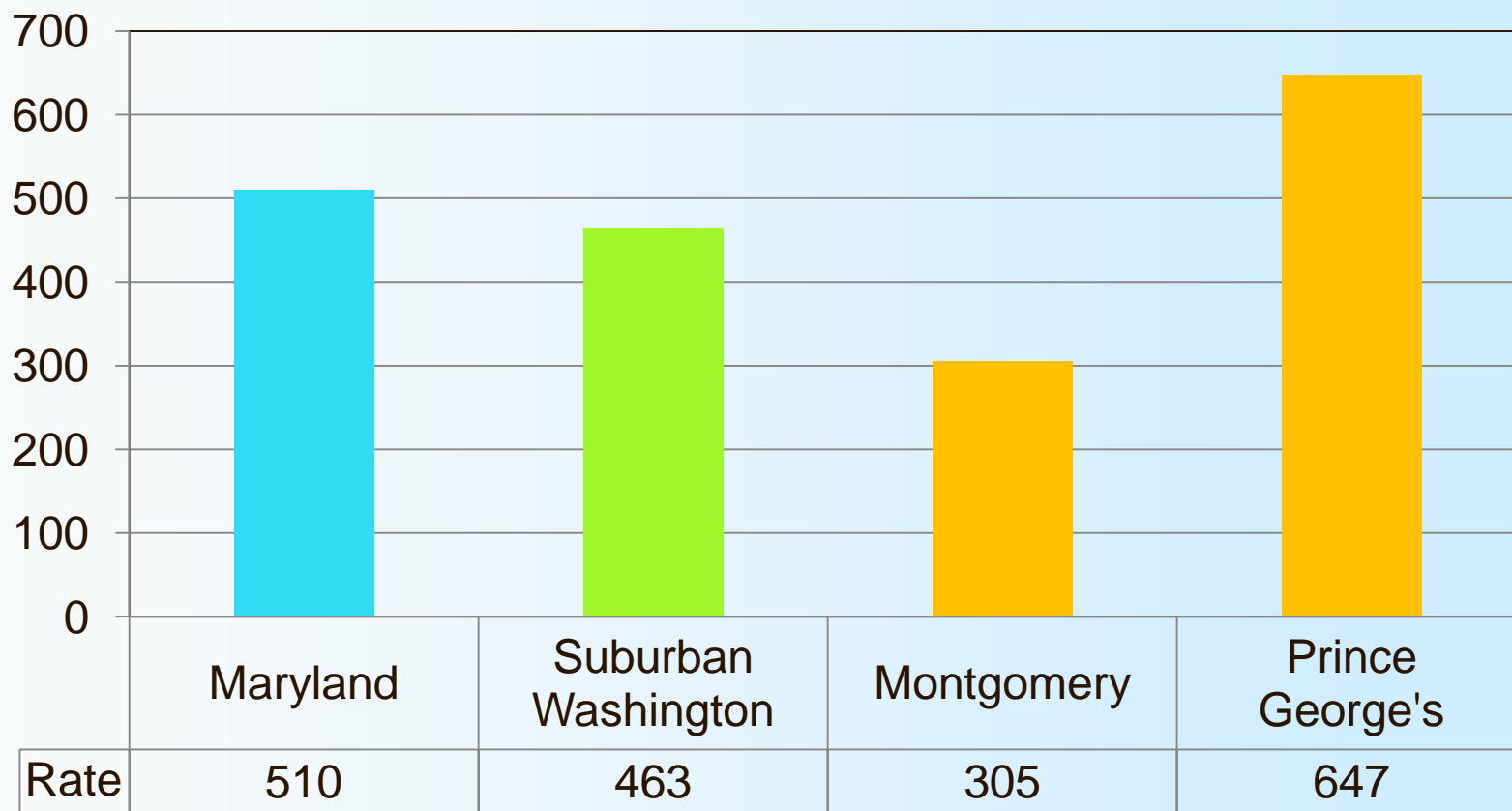


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Living HIV Cases Rates per 100,000 Population by County, Suburban Washington, 12/31/09

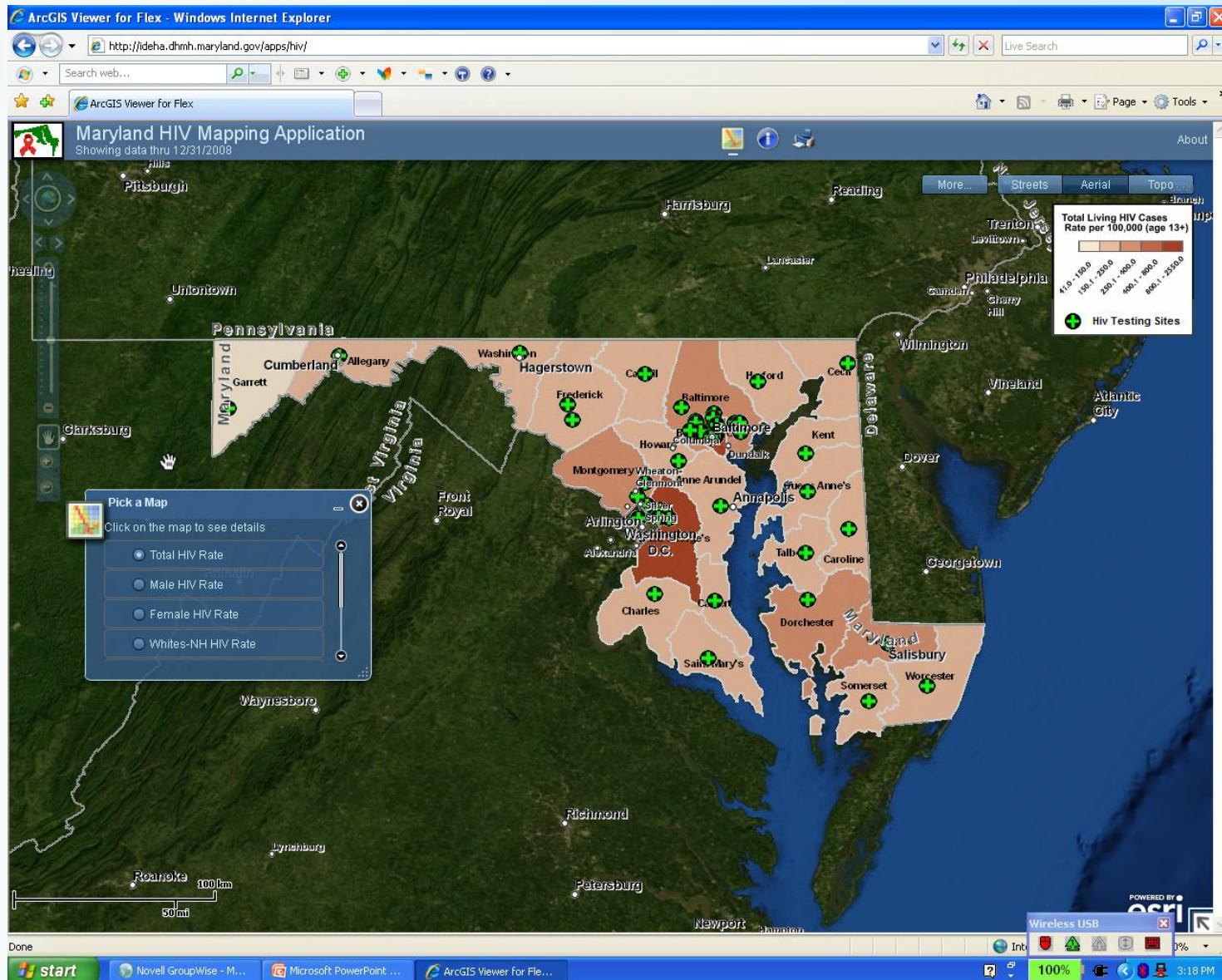


Population on 7/1/09. Cases on 12/31/09
as reported through 12/31/10

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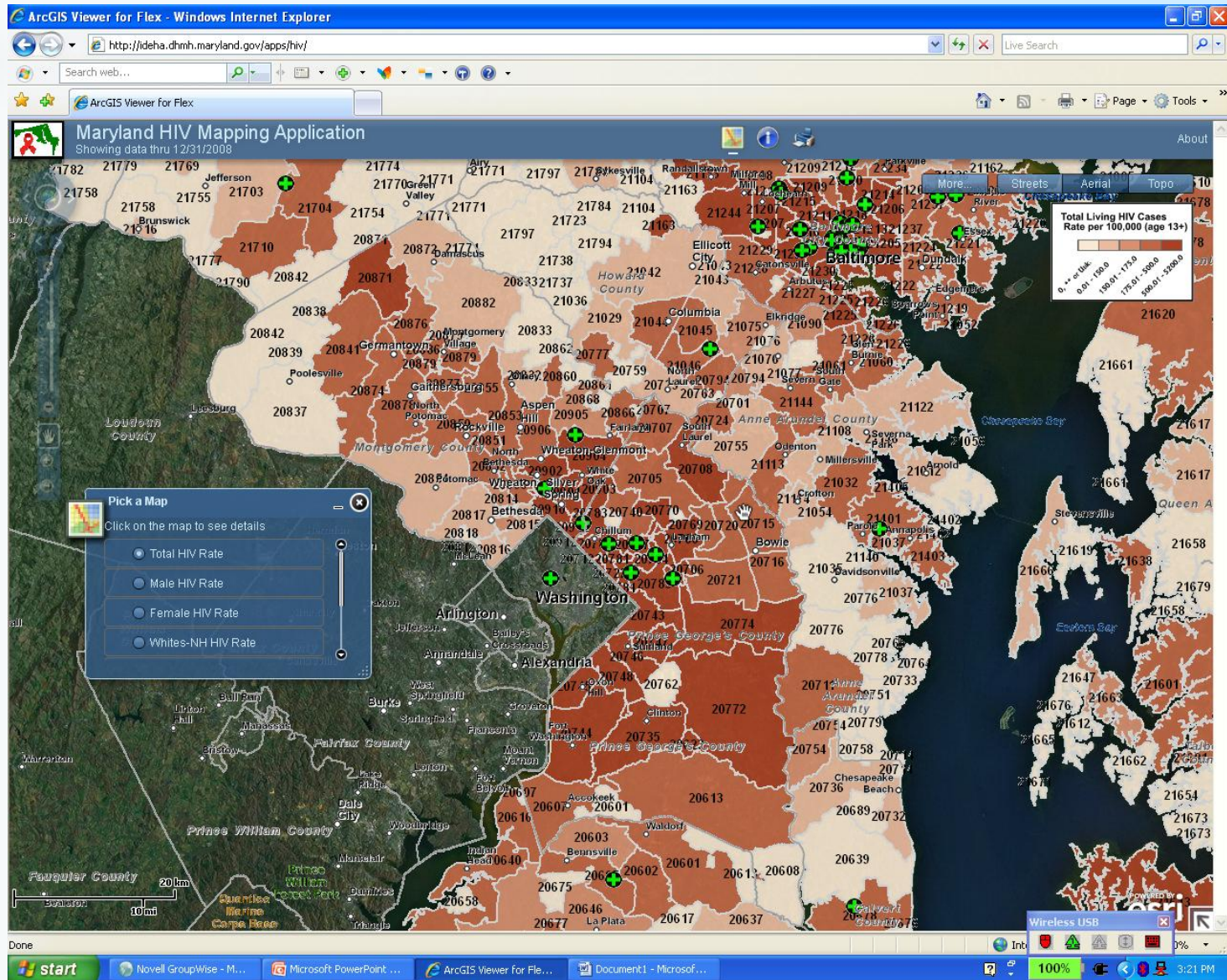
New HIV Mapping Tool



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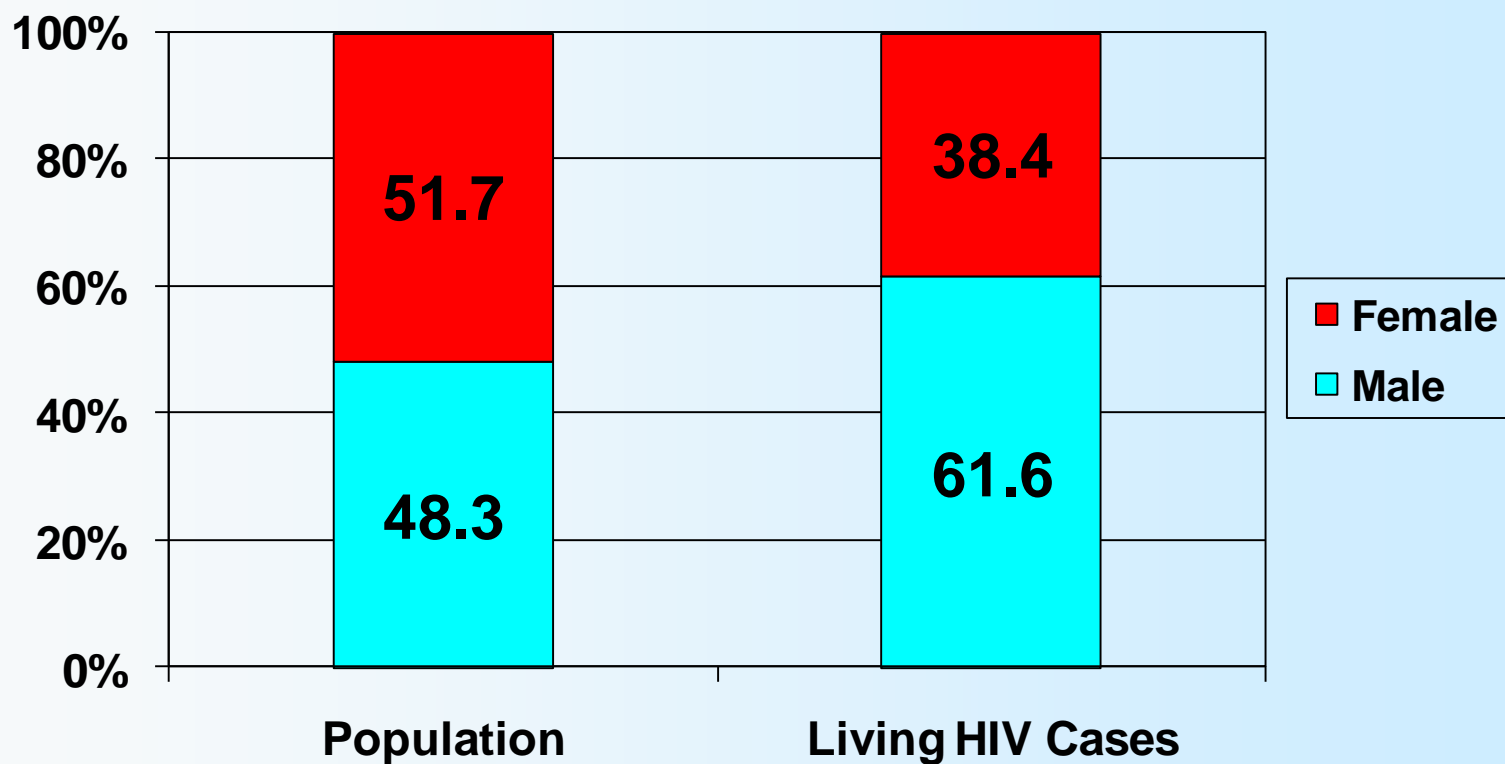


HIV Rates by ZIP Code





Population and Living HIV Cases by Sex, Suburban Washington

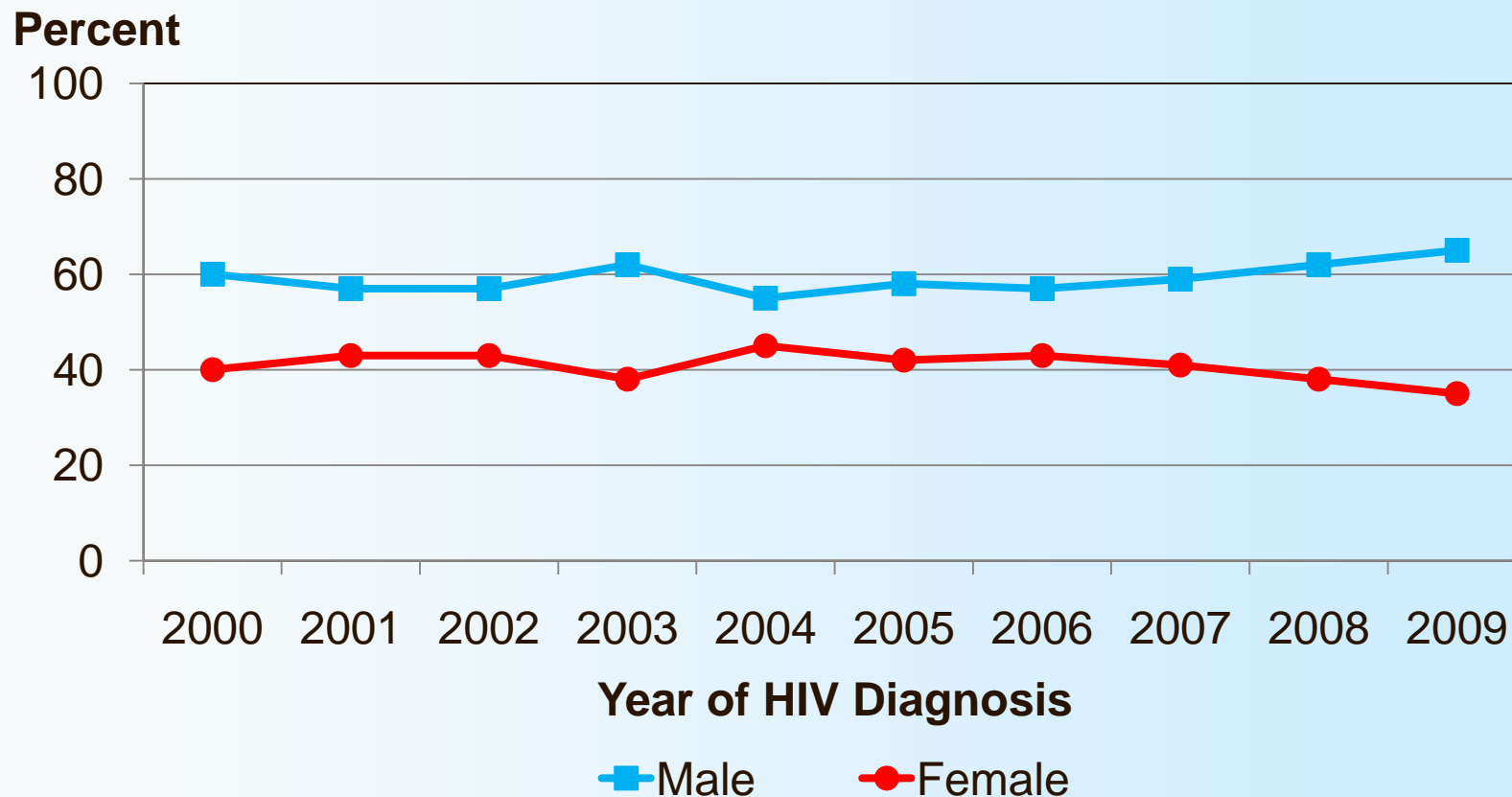


Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10

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Reported HIV Diagnosis Trends by Sex Suburban Washington

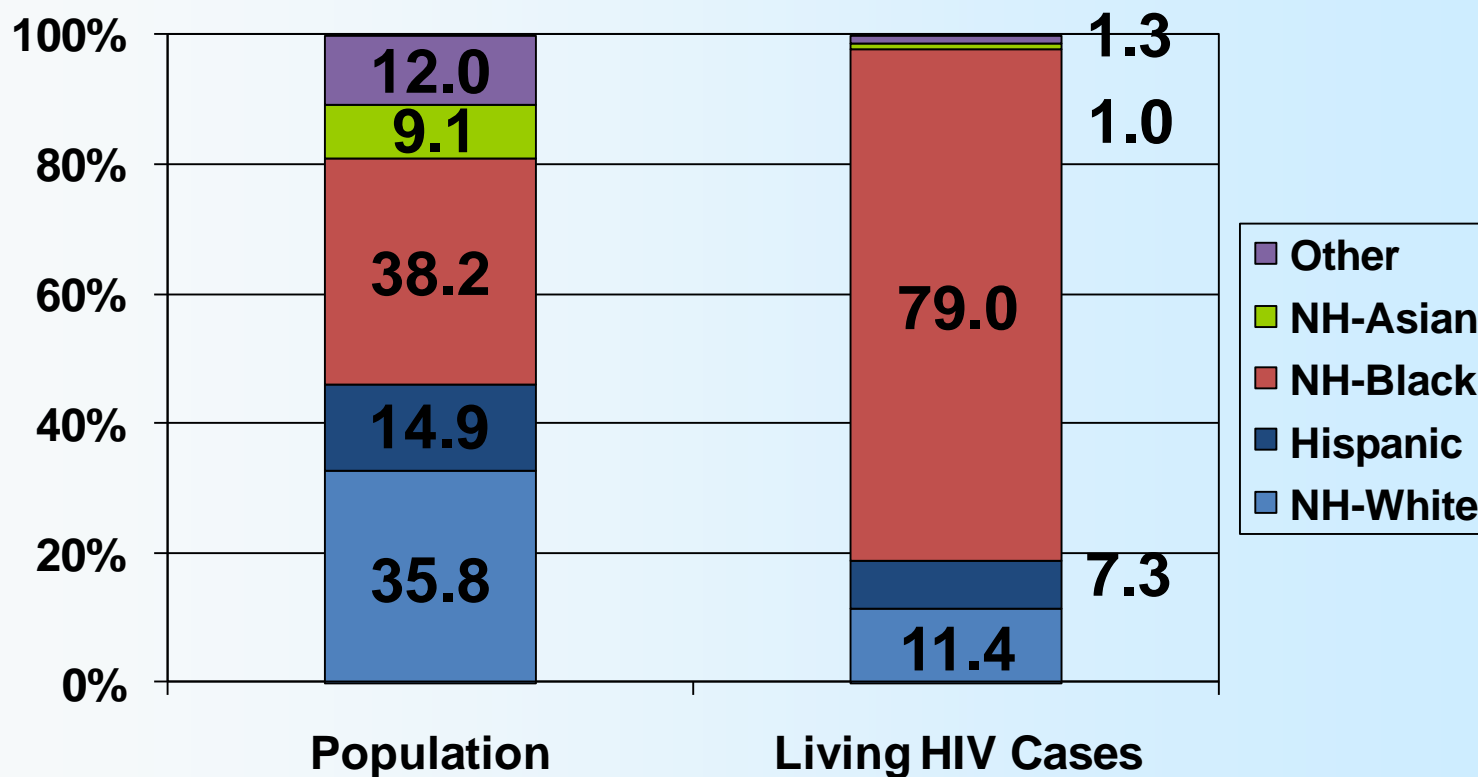


Using data as reported through 12/31/2010

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Population and Living HIV Cases by Race/Ethnicity Suburban Washington

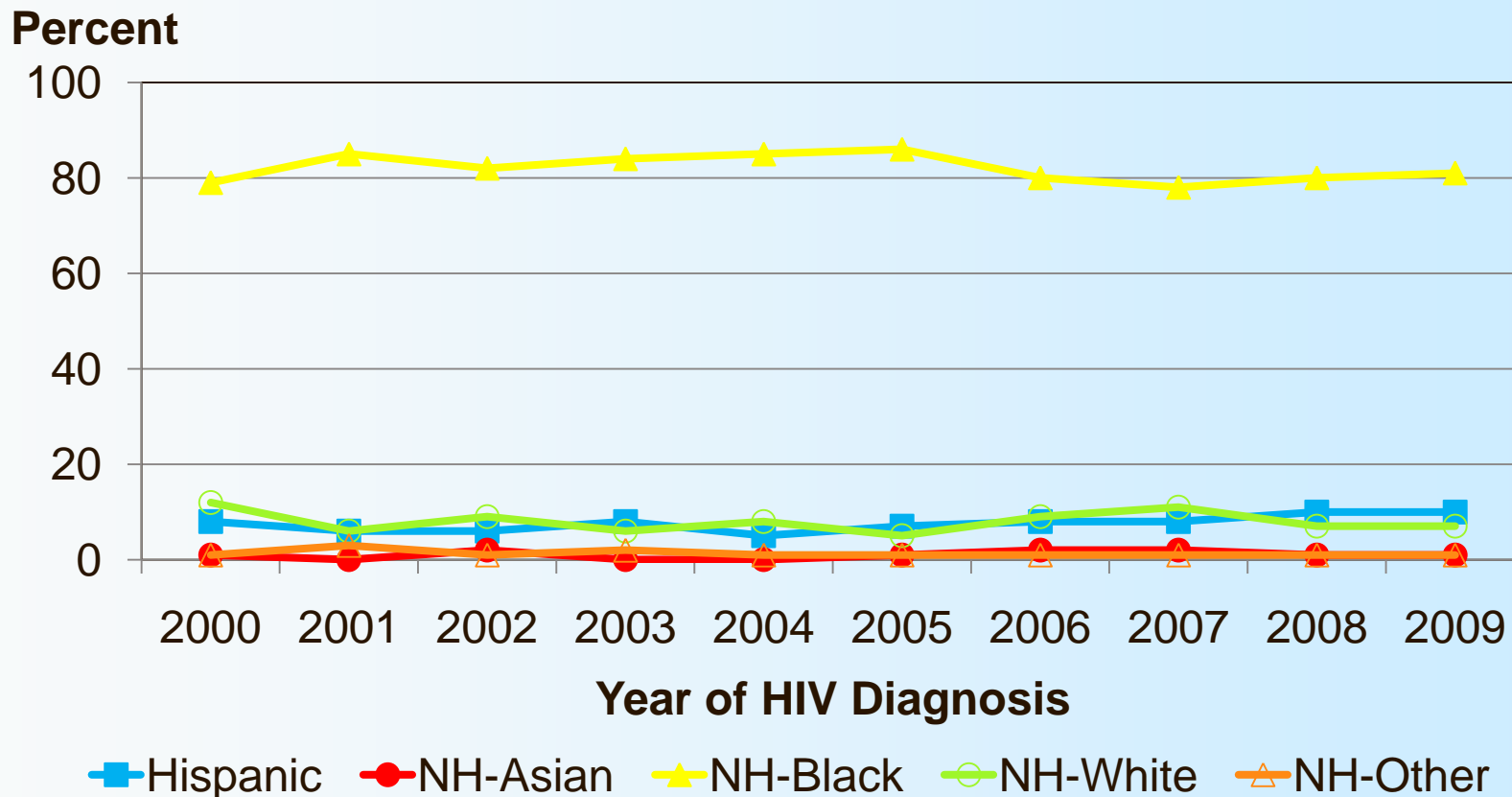


Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10

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Reported HIV Diagnosis Trends by Race/Ethnicity Suburban Washington

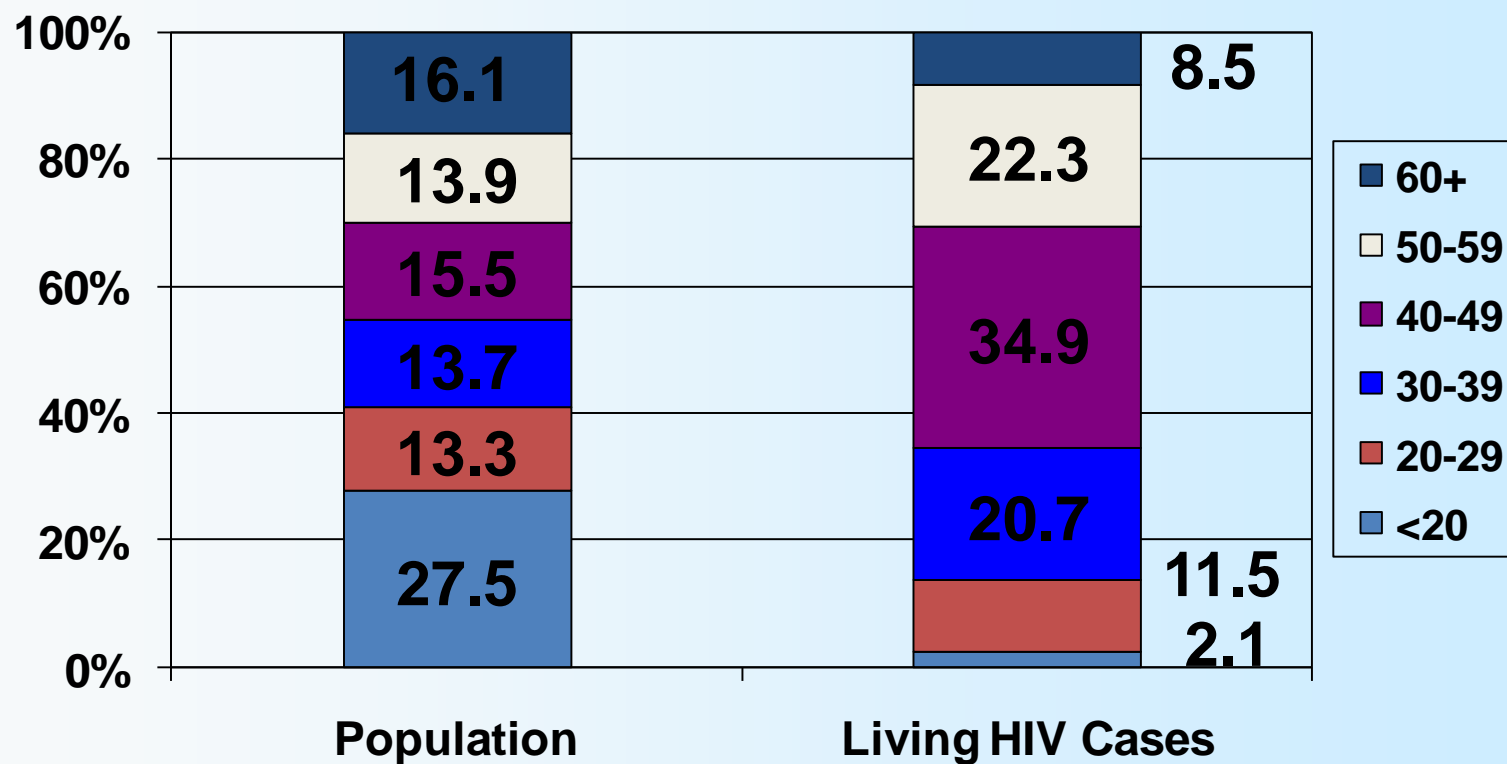


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Population and Living HIV Cases by Age, Suburban Washington

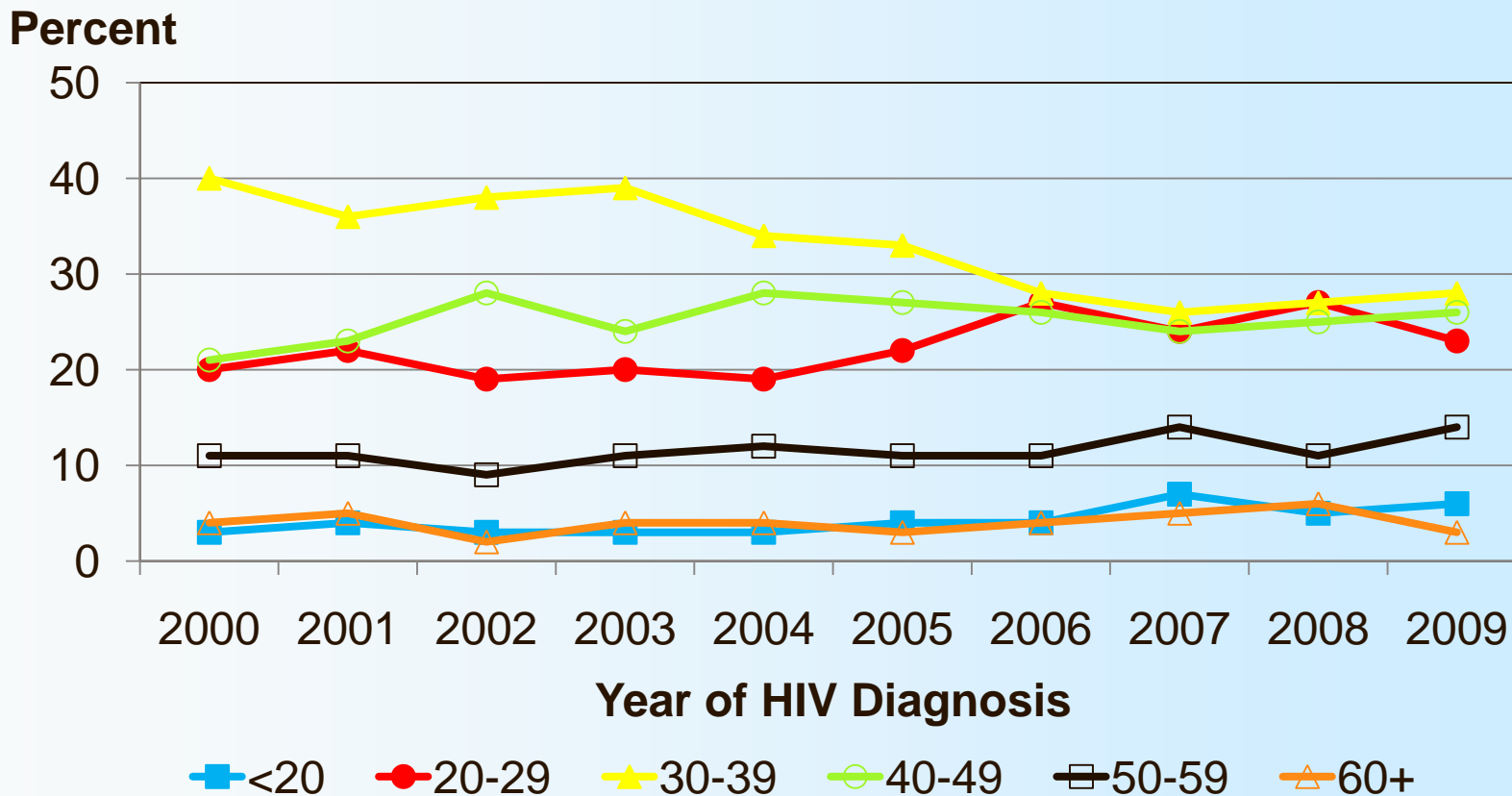


Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10

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Reported HIV Diagnosis Trends by Age at Diagnosis Suburban Washington



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Risk Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

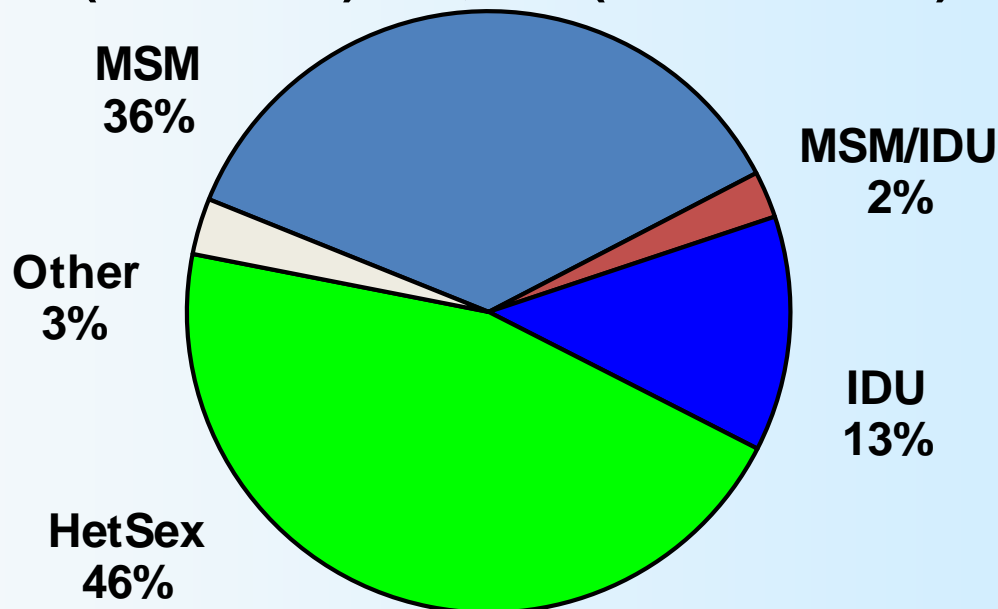
MSM/IDU: Men who have Sex with Men AND Inject Drugs

HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection



Living HIV Cases 12/31/09 by Exposure Category Suburban Washington

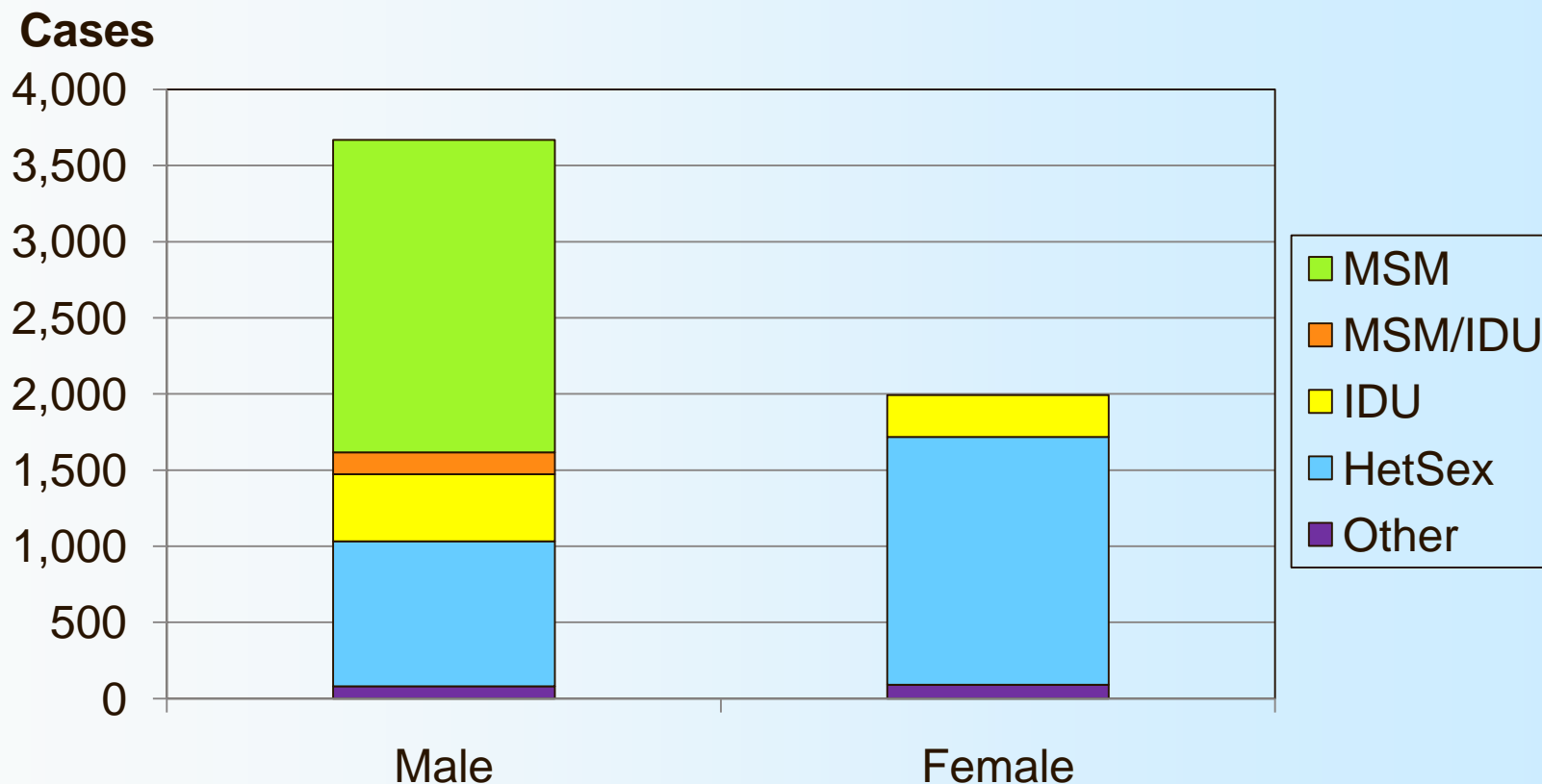
N (with Risk) = 5,661 (67% of Total)



Using data as reported through 12/31/2010



Living HIV Cases 12/31/09 by Risk and Sex at Birth Suburban Washington



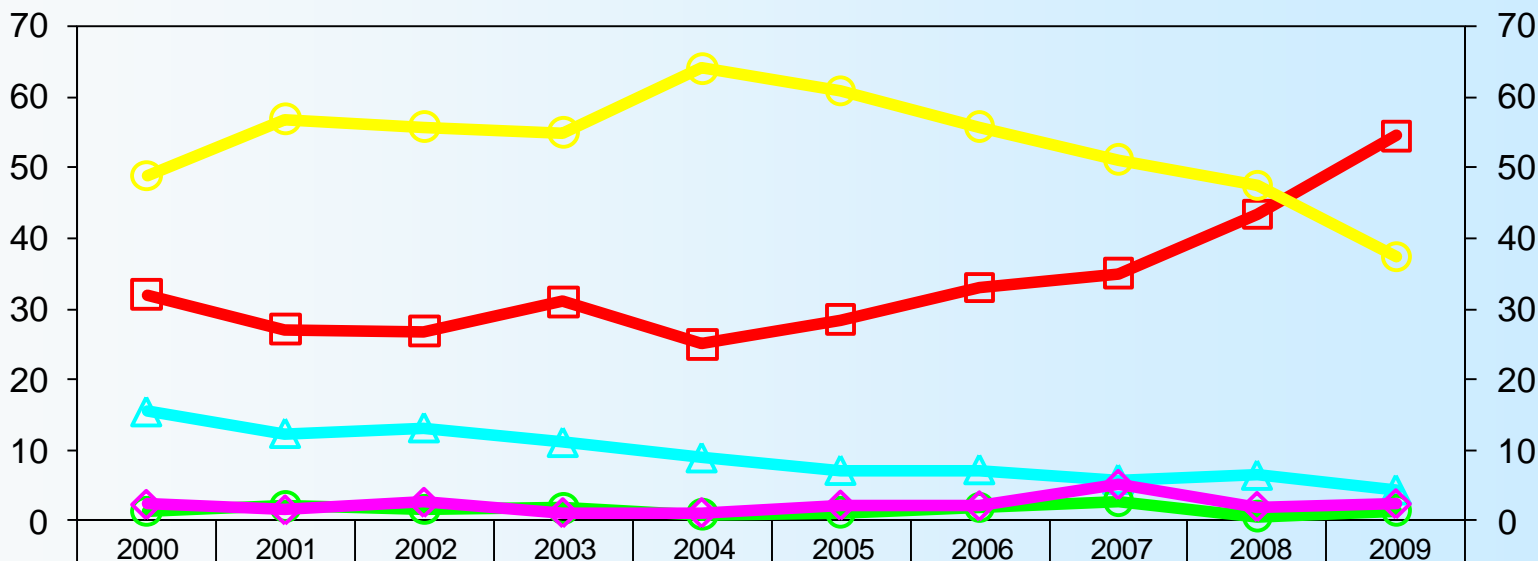
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Reported HIV Diagnoses Exposure Category Trends, Suburban Washington

Percent



MSM	32.0	27.1	26.8	31.0	25.0	28.5	33.0	35.0	43.4	54.5
IDU	15.5	12.4	13.2	11.1	8.9	7.1	7.2	5.8	6.4	4.3
HetSex	48.9	56.9	55.8	55.0	64.1	60.9	55.8	51.2	47.5	37.4
MSM/IDU	1.3	2.1	1.6	1.8	0.9	1.2	1.9	2.8	0.6	1.4
Other	2.3	1.5	2.6	1.1	1.1	2.2	2.1	5.2	2.0	2.4

Year of Diagnosis

Using data as reported through 12/31/2010

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2009 Reported Adult/Adolescent HIV Diagnoses (N=537) Suburban Washington



- Linkage to Care: 56% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 60% had a CD4 test within 12 months of HIV diagnosis, and the median value was 258 cells/microliter
- Late HIV Diagnosis: 33% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2010



2009 Reported Adult/Adolescent AIDS Diagnoses (N=206) Suburban Washington



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 2.8 years
- Late HIV Diagnosis: 83% were diagnosed with AIDS within 12 months of their HIV diagnosis

Using data as reported through 12/31/2010



Regional Summary



HIV/AIDS in the Suburban Washington Region



- There were 8,367 living HIV cases at the end of 2009 and 540 reported HIV diagnoses during 2009
- Prince George's County had the greatest share of cases (65%)
- Rates of living cases were two times higher in Prince George's than in Montgomery
- HIV was being diagnosed late (33% late, median CD4 258), contributing to many AIDS diagnoses (83% had late HIV diagnosis)



HIV/AIDS in the Suburban Washington Region: Demographics



- Males were disproportionately affected (62% of cases vs. 48% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (79% vs. 38%), but the proportion Hispanic, while small (7%), was increasing
- Persons 30-59 years old were disproportionately affected (78% vs. 43%), and proportions were increasing among 20-29 and 40-59 year olds while decreasing among 30-39 year olds



HIV/AIDS in the Suburban Washington Region: Transmission Risk



- Sexual transmission predominates (>82%)
 - Homosexual and heterosexual transmission among men
 - Heterosexual transmission among women
 - Male homosexual transmission proportion was increasing
 - Heterosexual transmission was decreasing
- Injection drug use is an important route of transmission (>13%), but proportion IDU was decreasing



New Epidemiological Products Coming to the New IDEHA Website

- New Epi Profiles for State, Regions, Counties
- New Indicators
 - Linkage to care
 - Late HIV diagnosis
 - CD4 counts at HIV diagnosis
 - Disease state: CD4 and VL levels for living cases
 - Progression: HIV to AIDS, AIDS to death
 - Presumed female heterosexual exposure category
- New HIV Mapping Tool
- New Query-able Database



Maryland Infectious Disease and Environmental Health Administration

Coming soon:

<http://ideha.dhmmh.maryland.gov>